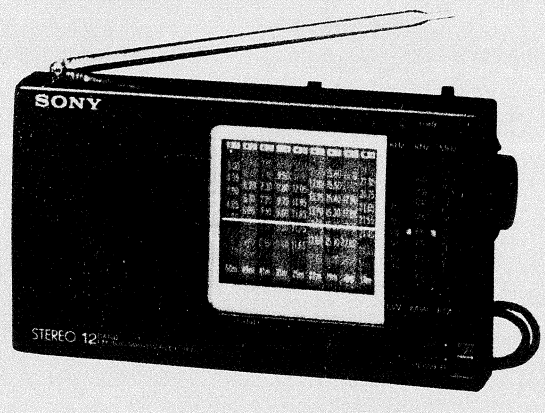
ICF-SW10

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



SPECIFICATIONS

Frequency range:
FM: 87.6 - 108 MHz
IF: 10.7 MHz
SW1: 4.750 - 5.060 MHz
SW2: 5.900 - 6.200 MHz
SW3: 7.100 - 7.350 MHz
SW4: 9.400 - 9.990 MHz
SW5: 11.600 - 12.100 MHz
SW6: 13.570 - 13.870 MHz
SW7: 15.100 - 15.800 MHz
SW8: 17.480 - 17.900 MHz
SW9: 21.450 - 21.750 MHz
MW: 530 - 1602 kHz
LW: 153 - 279 kHz
IF: 455 kHz

Speaker: Approx. 5.7 cm (2 1/4 inches) dia., 4Ω
Power output: 140 mW (at 10% harmonic distortion)
Output: Headphones jack (stereo minijack)
Power requirements: 3V DC, two R6 (size AA) batteries
DC IN 3V jack accepts: AC power adaptor AC-E30M (not supplied)
Battery life: Approx. 30 hours with Sony SUM-3 (NS)
Dimensions: Approx. 162 × 93.8 × 33.3 mm (w/h/d)
(6 1/2 × 3 3/4 × 1 5/16 inches)
Mass: Approx. 340 g (12 oz) incl. batteries
Supplied accessory: Short wave guide (1)

Accessories not supplied: AC power adaptor
*AC-E30M
LW/MW/SW wide range antenna AN-1

* The voltage of power supply is different depending on the country. Please buy an AC power adaptor in the country where the radio is to be used.

Design and specifications are subject to change without notice.

FM Stereo/SW1–9/ MW/LW 12 Band Receiver

SONY®

MICROFILM

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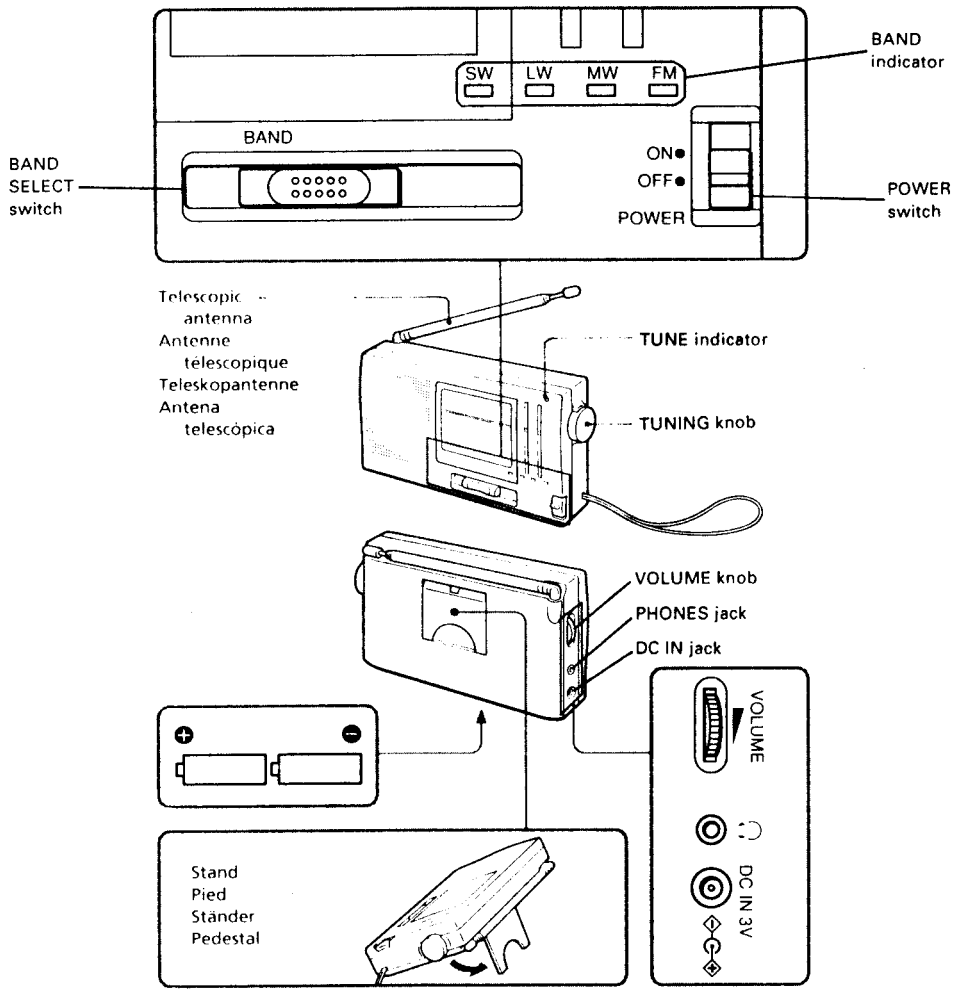
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

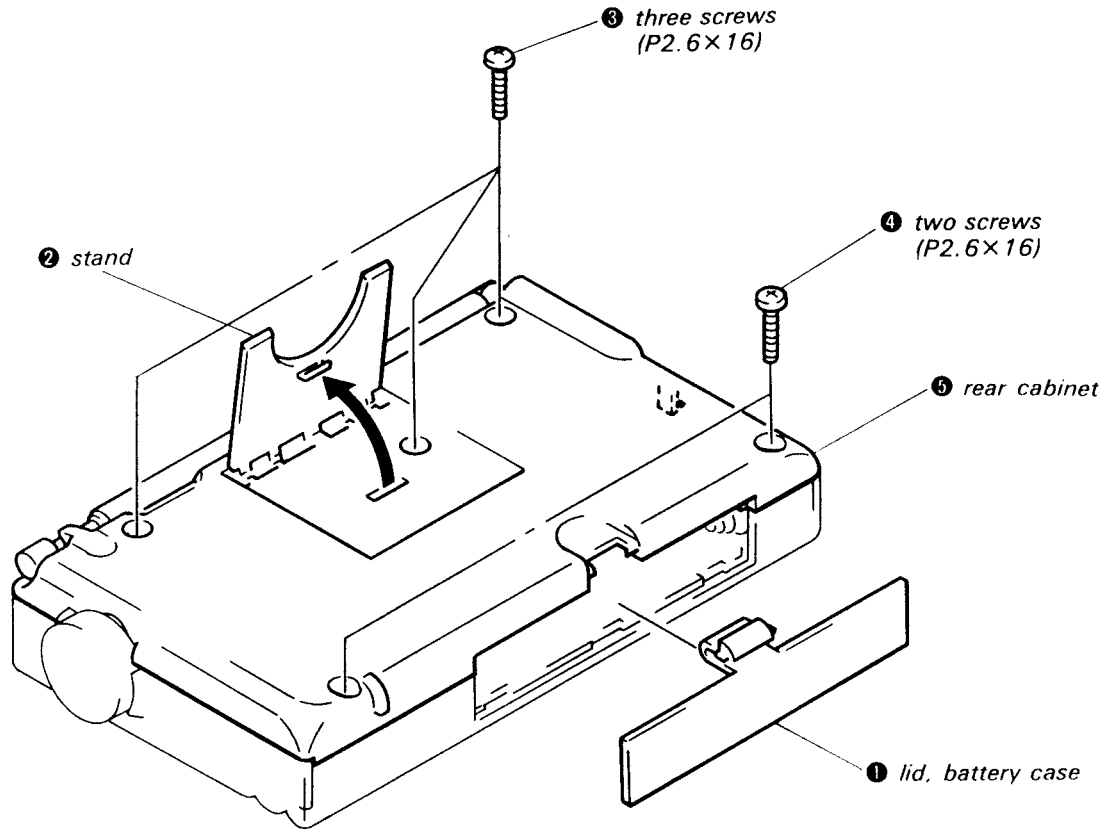
SECTION 1
GENERAL



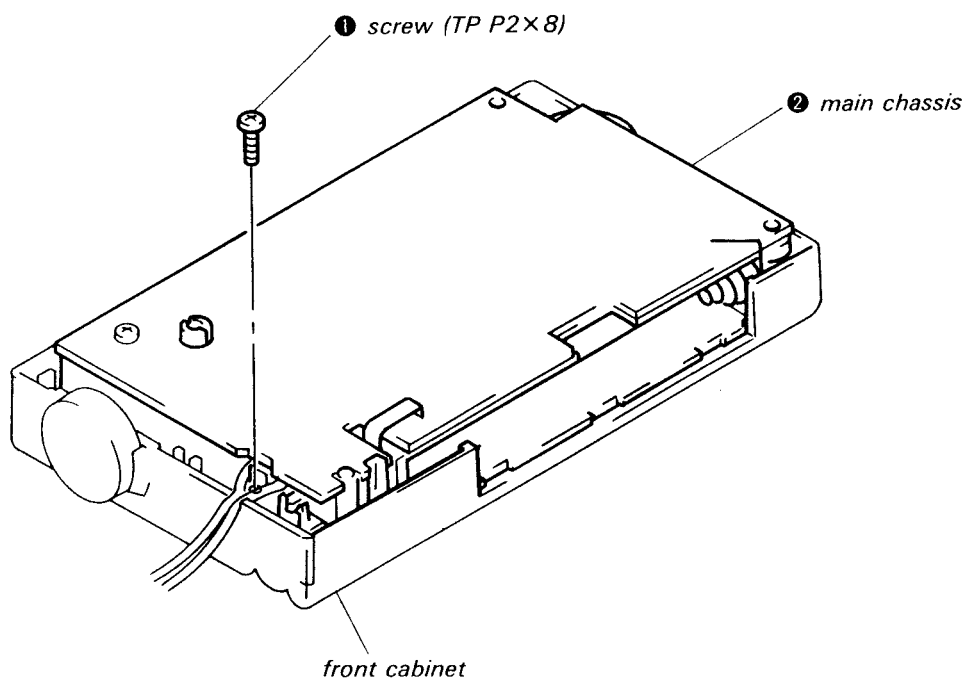
SECTION 2
DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.

2-1. REAR CABINET



2-2. MAIN CHASSIS



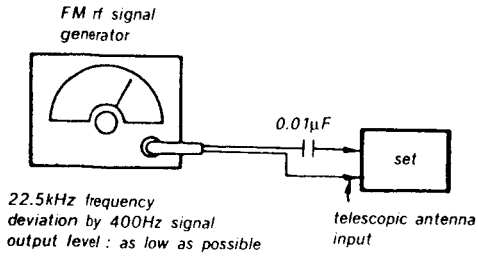
SECTION 3
ELECTRICAL ADJUSTMENTS

3-1. RADIO SECTION

• FM Section

Setting :

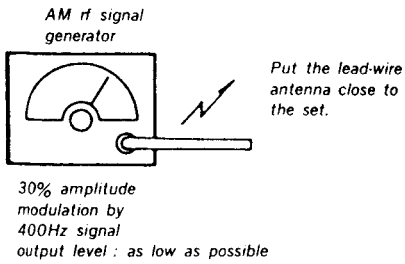
BAND switch : FM


FM rf signal generator
0.01μF
set
22.5kHz frequency deviation by 400Hz signal output level : as low as possible
telescopic antenna input

• MW/LW Section

Setting :

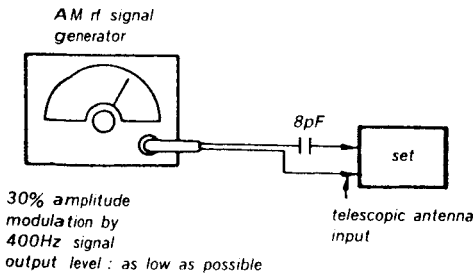
BAND switch : MW/LW

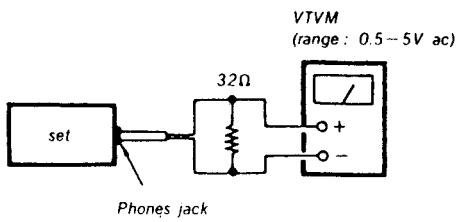

AM rf signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400Hz signal output level : as low as possible

• SW Section

Setting :

BAND switch : SW1—SW9


AM rf signal generator
8pF
set
30% amplitude modulation by 400Hz signal output level : as low as possible
telescopic antenna input



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

- This adjustment should be executed after MW band adjustment is completed because the LW and SW bands use the BAR ANT and CV1 in common with the MW band.
  Therefore, if MW band is adjusted, the LW and SW bands must also be readjusted.

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L7	CT1-4
87.3MHz	108.3MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L6	CT1-3
87.3MHz	108.3MHz

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L4	CT1-2
520kHz	1,650kHz

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	CT1-1
600kHz	1,400kHz

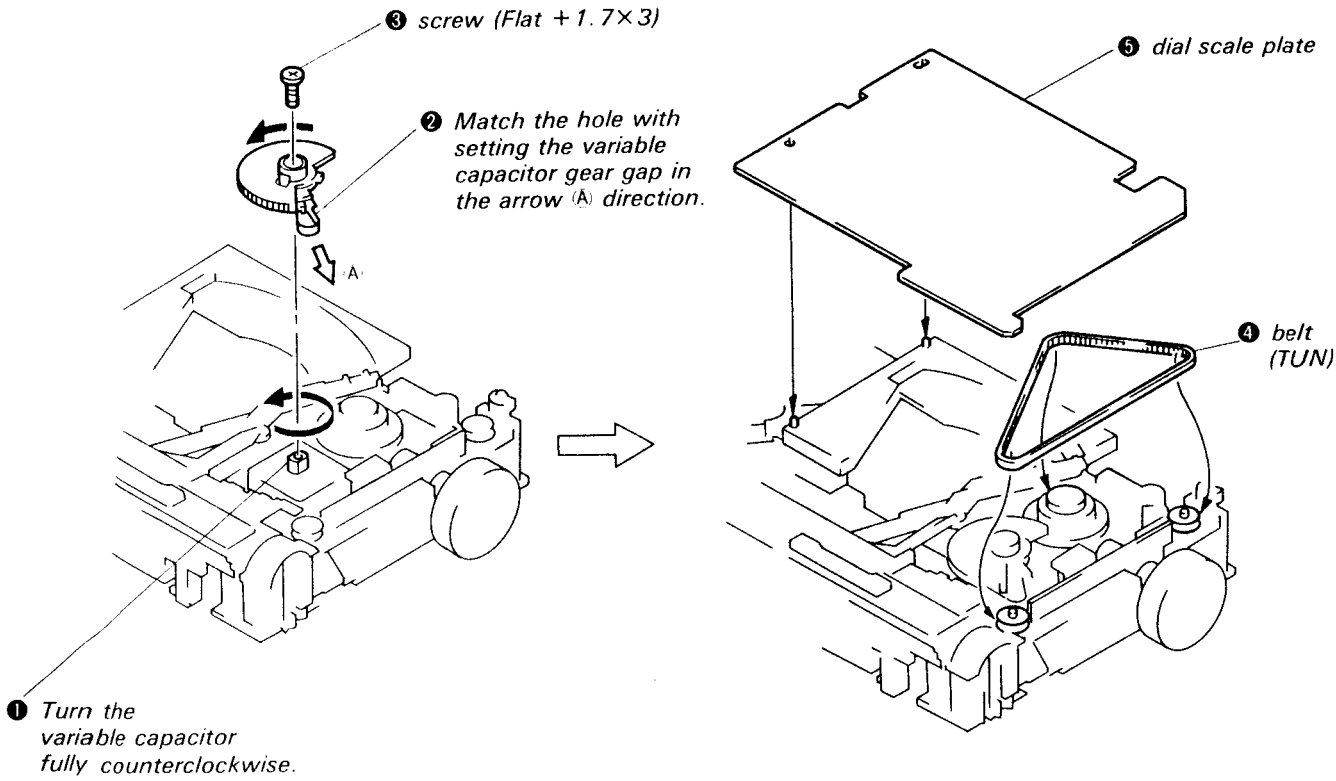
AM IF ADJUSTMENT
Adjust for a maximum reading on VTVM.
T1
455kHz

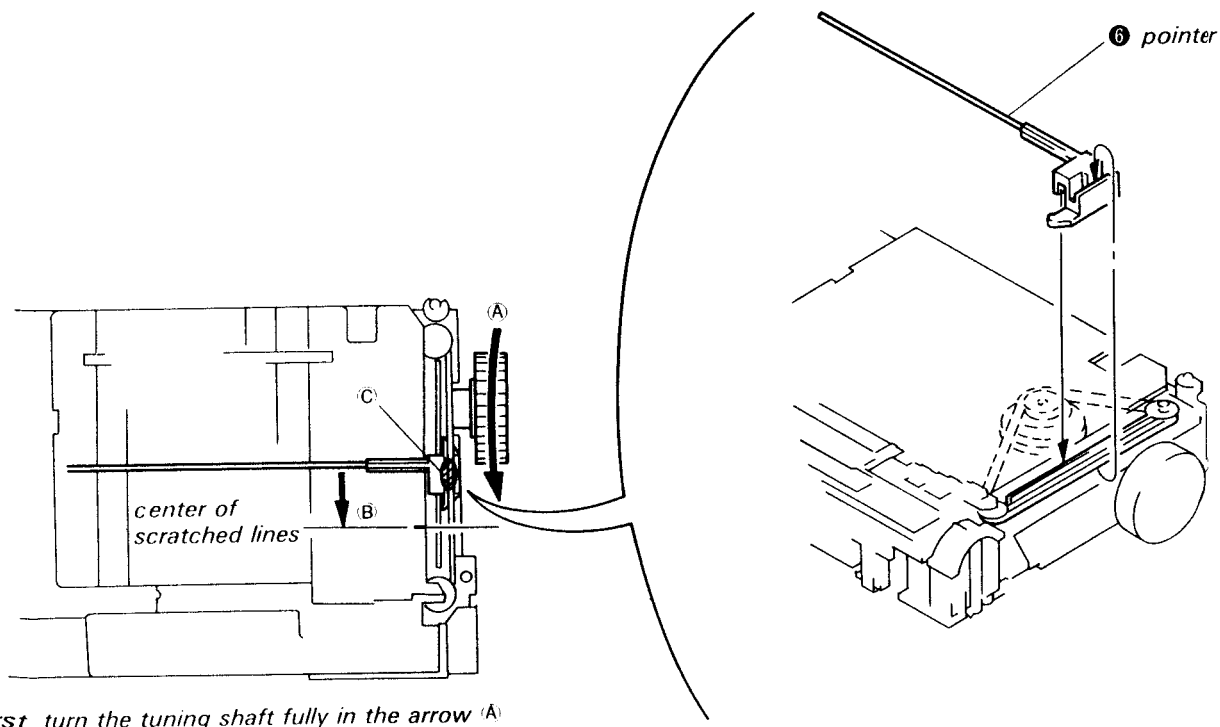
LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L5	CT3
137kHz	295kHz

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L2	CT2
155kHz	260kHz

- Preparation for SW band adjustment
  After making sure that the MW band adjustment has completed, set the pointer to the center of character of 6.0, 7.2, 11.8 or 21.6MHz which is reference position of dial character, and fix the CV1 at this position.

2-3. DIAL POINTER SETTING


❸ screw (Flat +1.7×3)
❷ Match the hole with setting the variable capacitor gear gap in the arrow Ⓐ direction.
Ⓐ
❶ Turn the variable capacitor fully counterclockwise.
❺ dial scale plate
❹ belt (TUN)



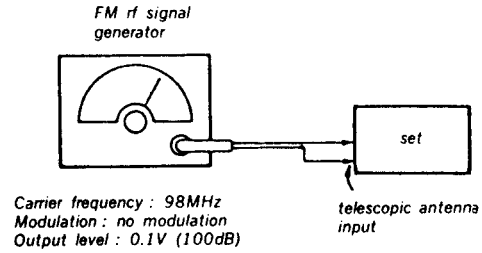
❼ *First, turn the tuning shaft fully in the arrow Ⓐ direction. Move only the dial pointer in the arrow B direction and set it on the center of the scratched lines on the dial scale plate. Apply suitable locking compound to C portion.*

SW FREQUENCY CENTER ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
SW1	L25	4.85MHz
SW2	L24	6MHz
SW3	L23	7.2MHz
SW4	L22	9.62MHz
SW5	L21	11.8MHz
SW6	L20	13.65MHz
SW7	L19	15.35MHz
SW8	L18	17.65MHz
SW9	L17	21.6MHz

1. After completion of SW1-9 adjustment, confirm that each center frequency +910kHz signal is received from AM reference signal generator.
2. If not received, readjust, then repeat 1.

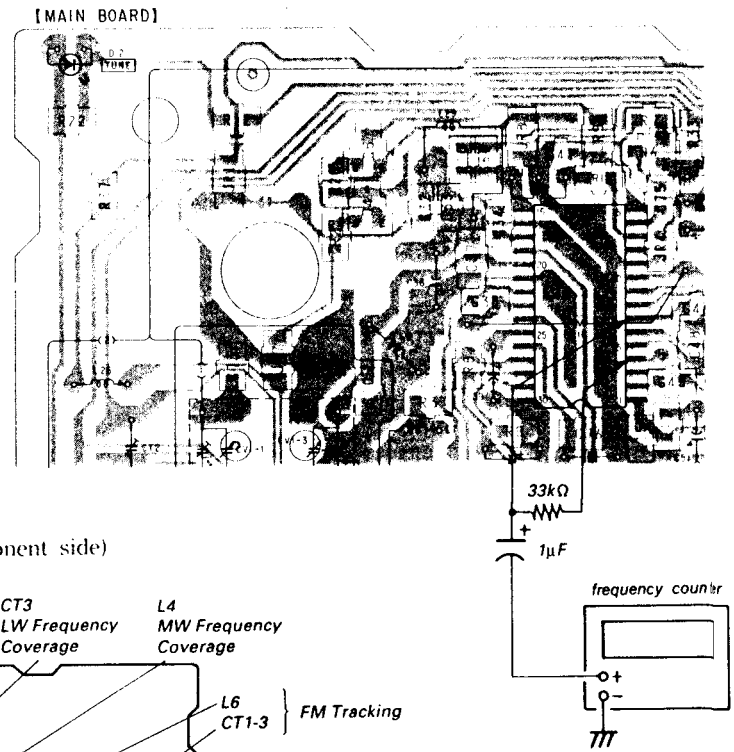
VCO Adjustment

Procedure :

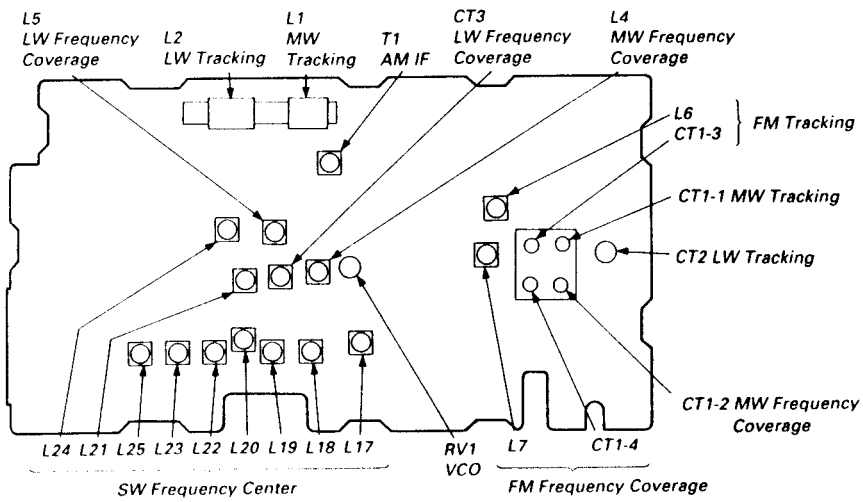


1. Insert the plug to PHONES jack.
2. Connect frequency counter to the positions shown the figure right.
3. Tune the set to 98MHz.
4. Adjust RV1 for 76±0.1kHz reading on the frequency counter.

[MAIN BOARD] (CONDUCTOR SIDE)



Adjustment Location : MAIN board (component side)



SW FREQUENCY CENTER ADJUSTMENT		
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1. After completion of SW1-9 adjustment, confirm that each center frequency +910kHz signal is received from AM reference signal generator.
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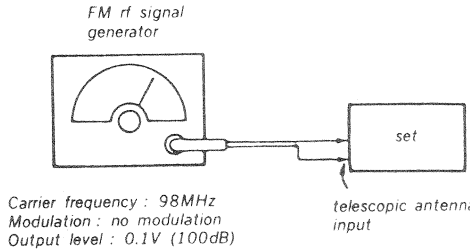
Procedure :



1. Insert the plug to PHONES jack.
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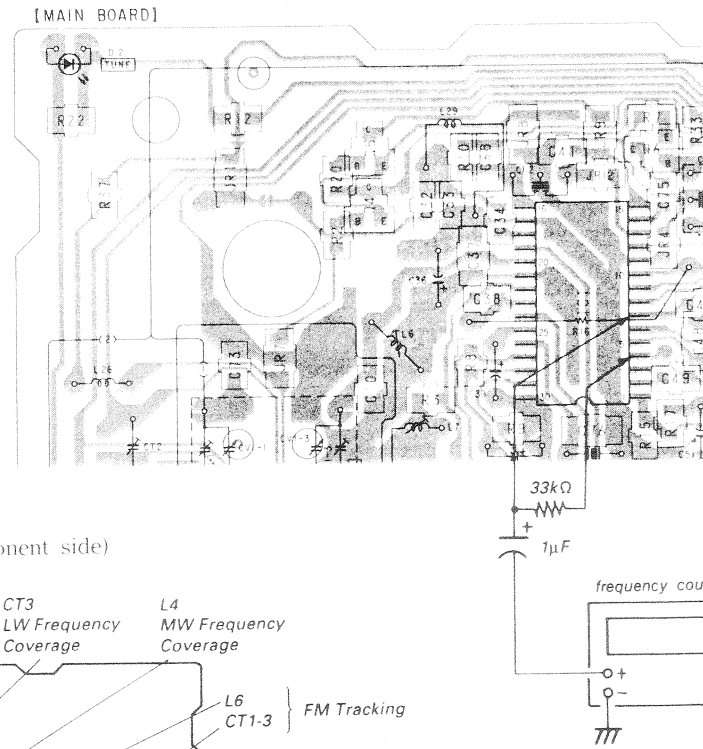
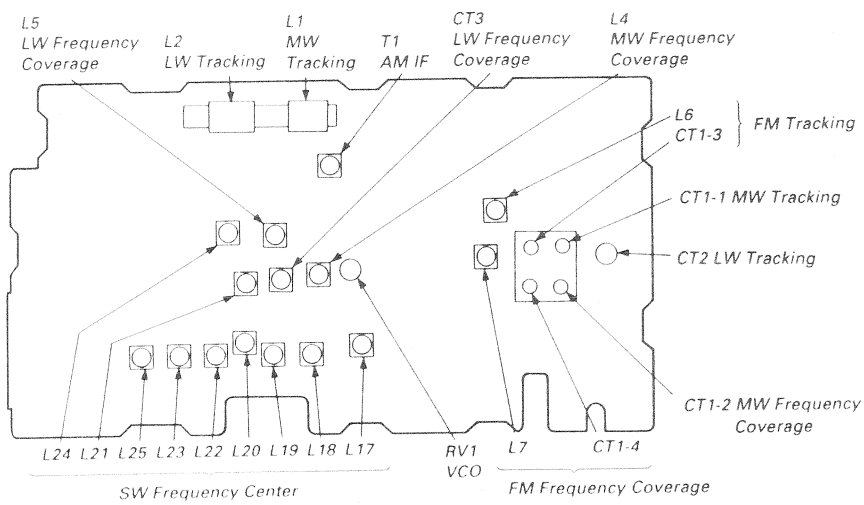
[MAIN BOARD] (CONDUCTOR SIDE)



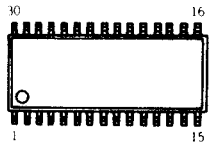
Adjustment Location : MAIN board (component side)



SECTION 4
DIAGRAMS

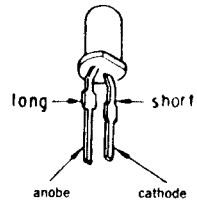
• Semiconductor Lead Layouts

CXA1238M-T6

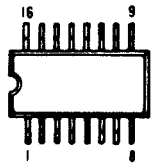


TOP VIEW

TLR124

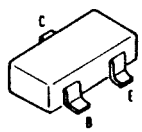


CXA1522M

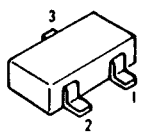


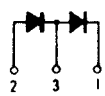
(TOP VIEW)

2SA1162-G
2SC2412K-QR

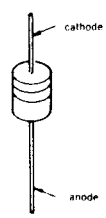


1SS226





1SS277



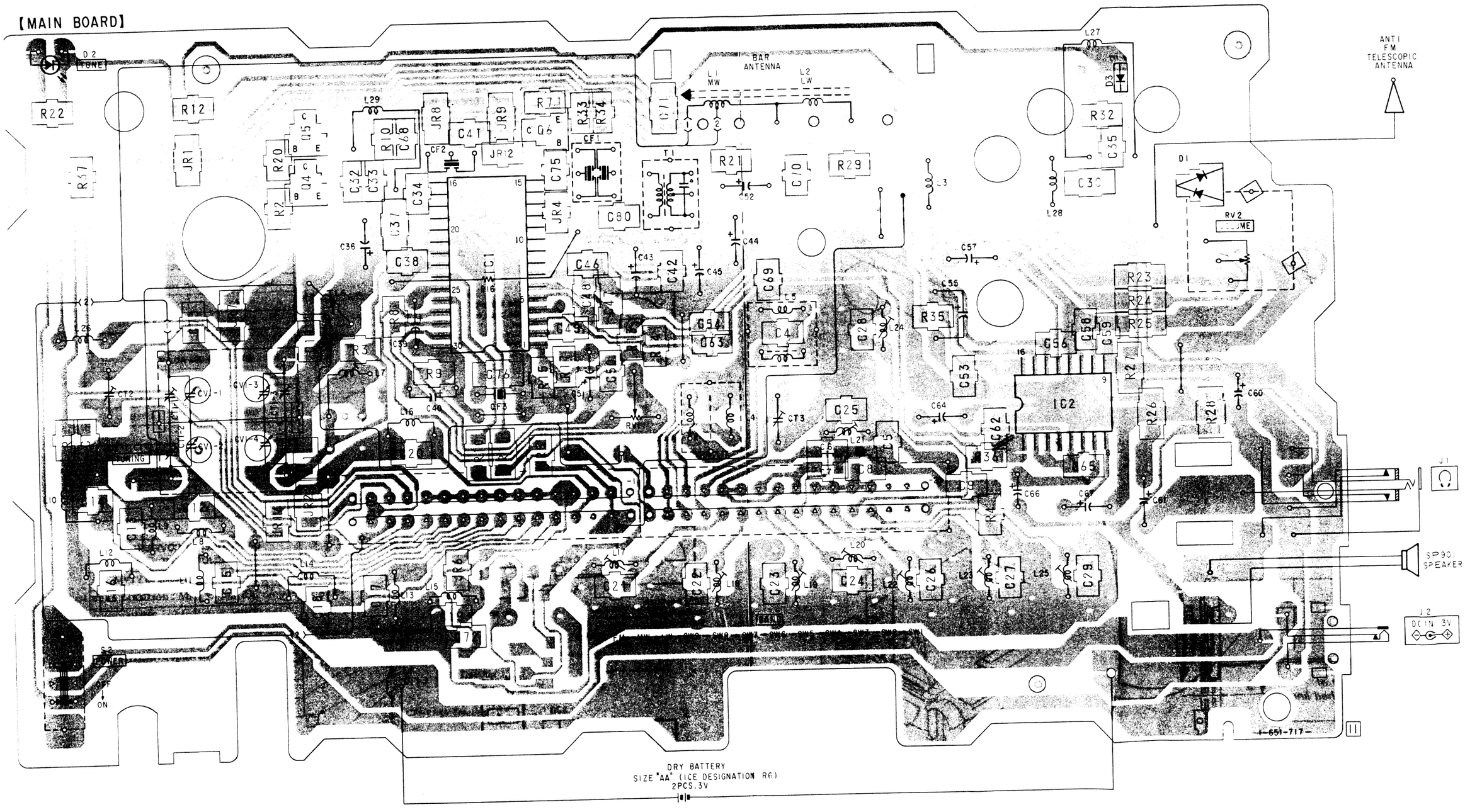
• Semiconductor location

Ref. No.	Location
D1	B - 11
D2	B - 2
D3	B - 11
IC1	C - 6
IC2	D - 10
Q4	B - 4
Q5	B - 4
Q6	B - 6

Note:

- ○—— : parts extracted from the component side.
- : Pattern on the side which is seen.

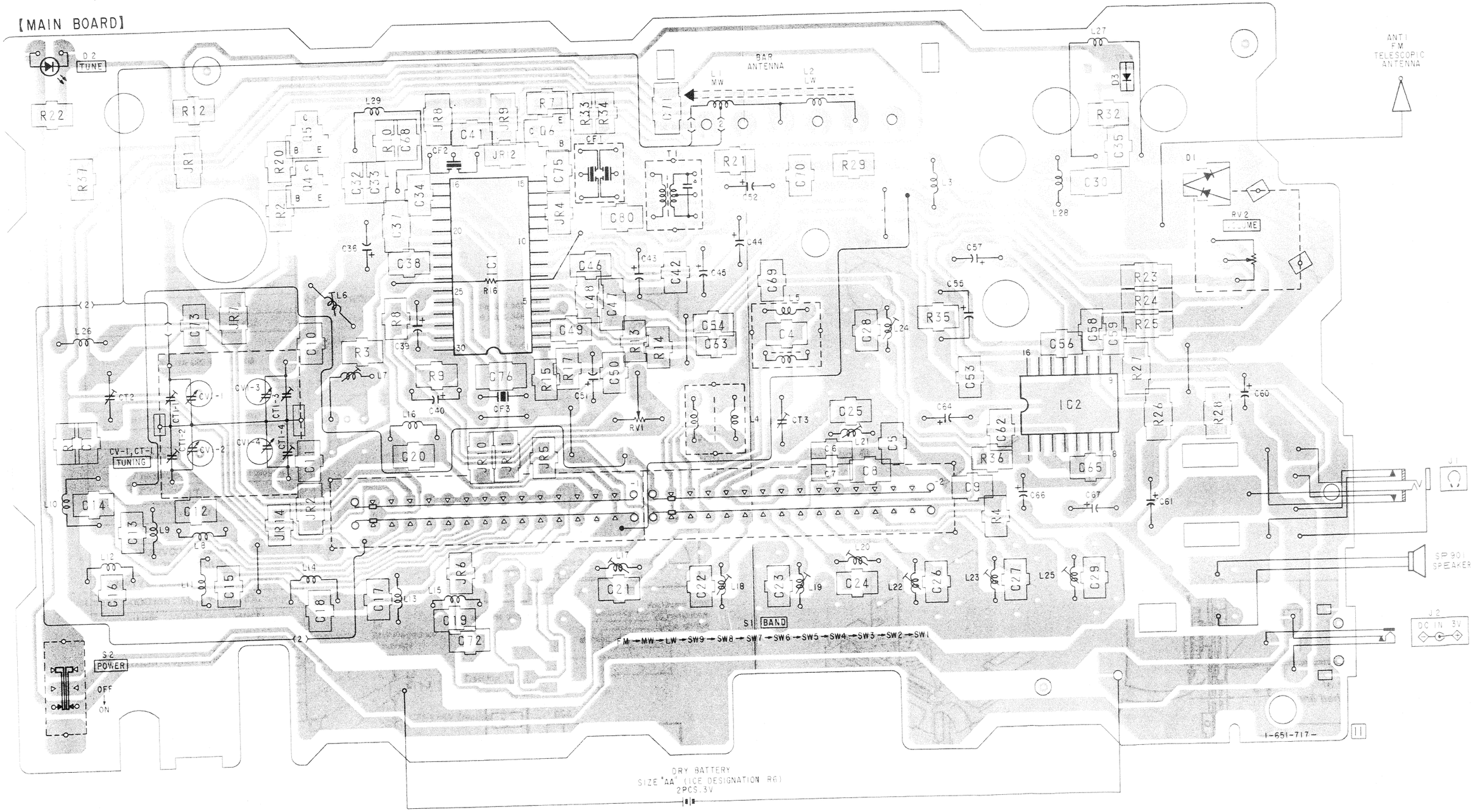
【MAIN BOARD】


D2
TUNE
R22
R12
R57
JR1
R20
Q5
Q4
R2
L29
JR8
R10
C68
C41
JR9
R7
Q6
R33
R34
CF1
CF2
JR12
C32
C33
C34
C37
C36
C38
C75
JR4
C80
T1
BAR ANTENNA
L1 MW
L2 LW
C71
R21
C52
C10
R29
C3
C44
C43
C42
C45
C46
C69
L5
C4
C54
C63
C49
C48
C39
R3
R9
C74
CF3
C5
C51
C40
C16
RV1
L27
D3
R32
C35
C30
L28
D1
RV2
VOLUME
ANTI FM TELESCOPIC ANTENNA
C57
C55
R35
L24
C26
R23
R24
R25
C58
C59
C56
C53
IC2
C64
C62
C60
R27
R26
R28
CT2
CV1
GV1-3
GV1-4
TUNING
L12
L14
L13
L15
L8
L9
L10
L11
L17
L18
L19
L21
C23
C24
C25
CT3
L22
L23
C27
L25
C29
C66
C67
C61
J1
SP90
SPEAKER
J2
DC IN 3V
S2
POWER
OFF
ON
-651-717-
DRY BATTERY
SIZE "AA" (ICE DESIGNATION R6)
2PCS.3V

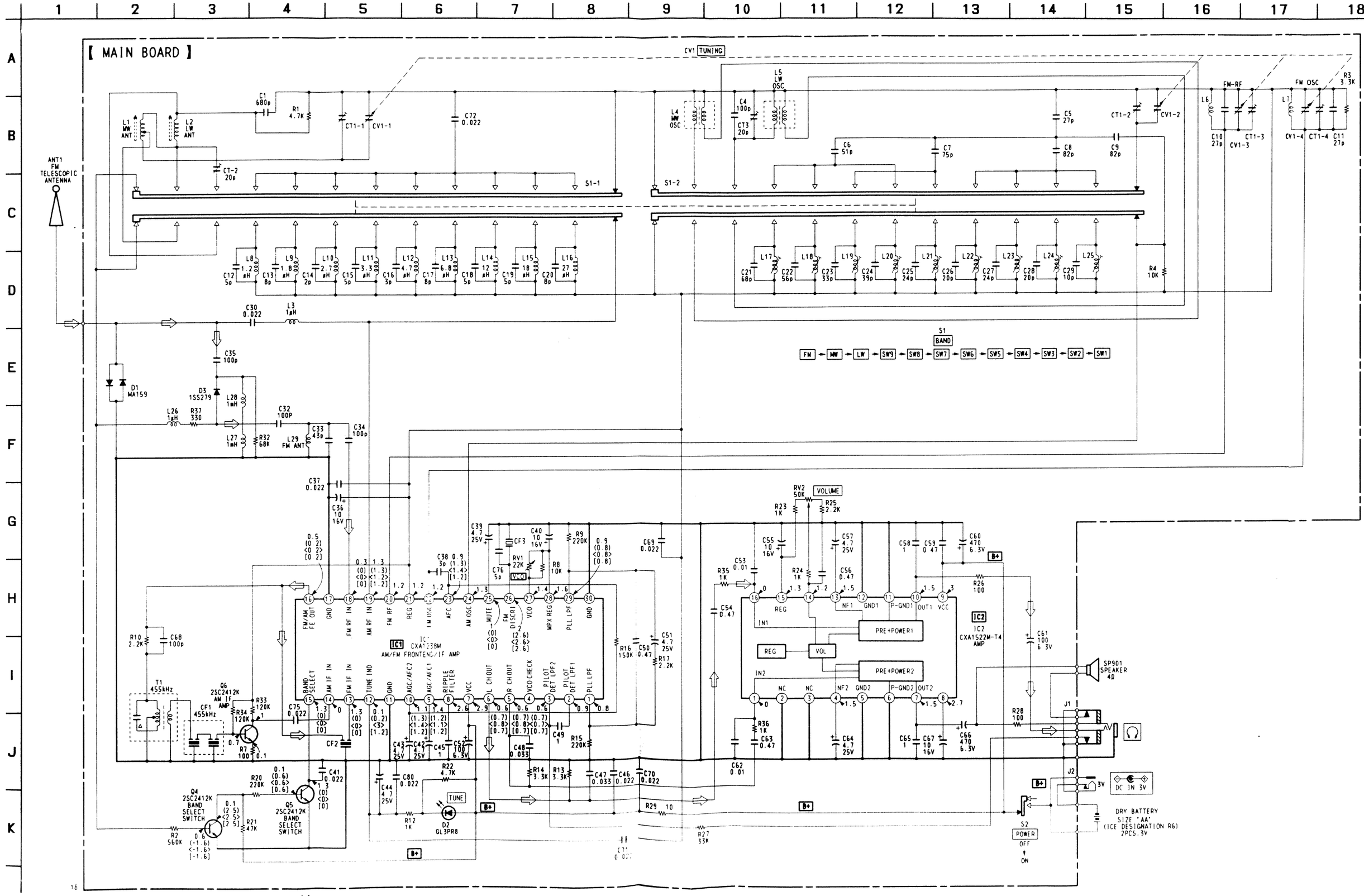
/IRING BOARD

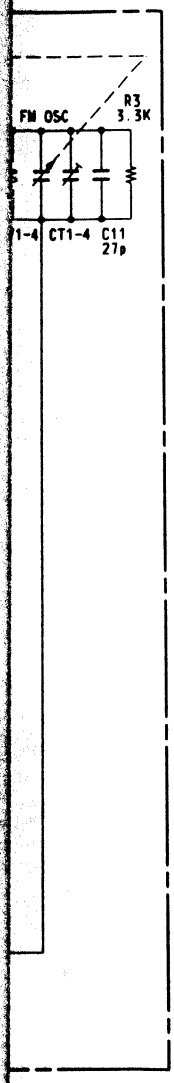
2	3	4	5	6	7	8	9	10	11	12	13

【MAIN BOARD】



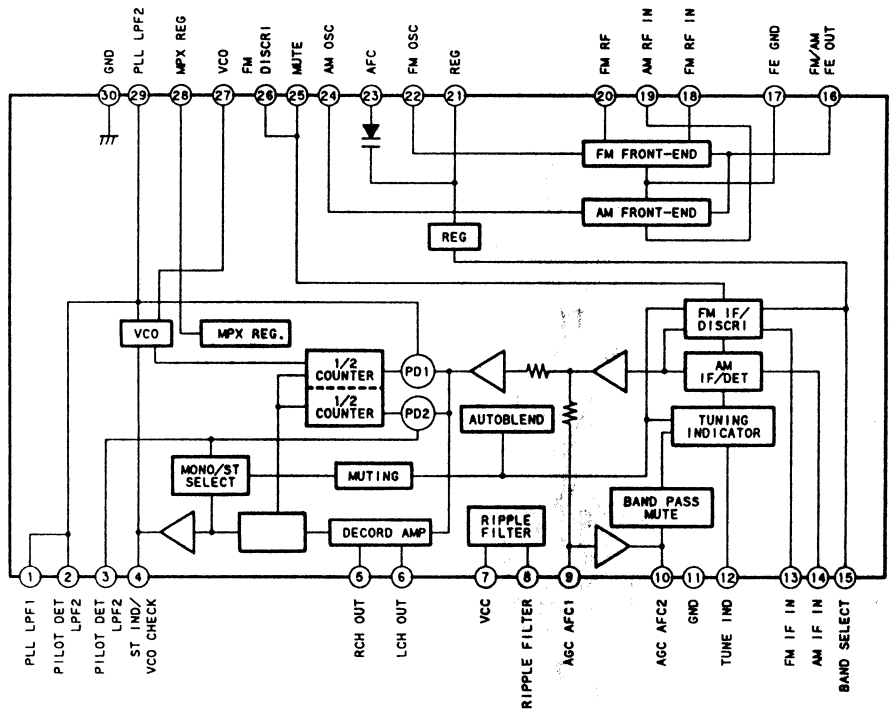
4-2. SCHEMATIC DIAGRAM





• IC Block Diagram

IC1 CXA1238M-T6



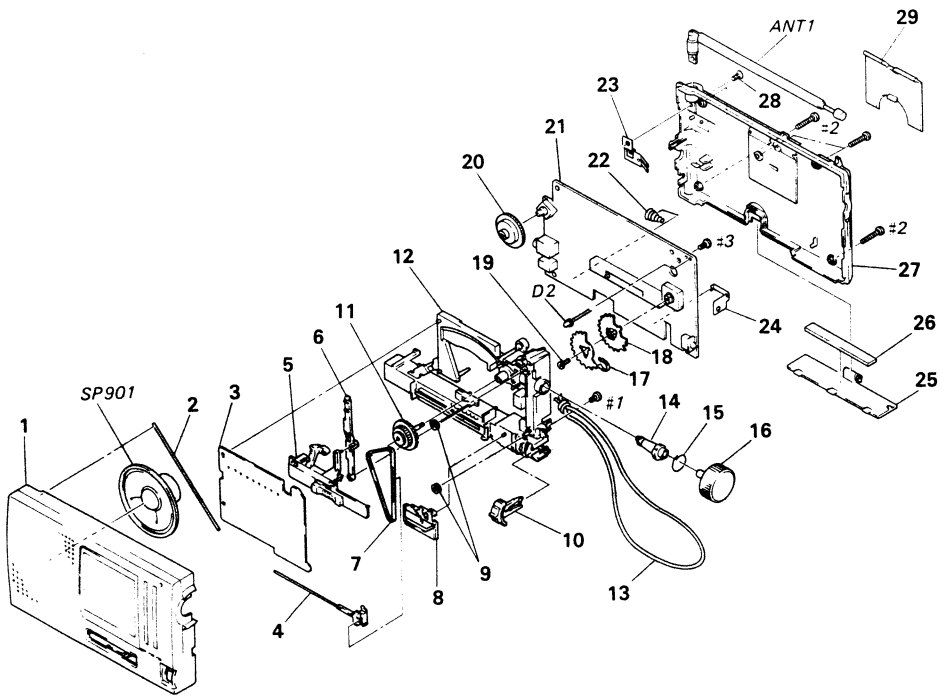
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
  no mark : FM
  ( ) : MW
  < > : SW
  [ ] : LW
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

SECTION 5
EXPLODED VIEWS

NOTE:
- -xx,-x mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (#mark) list and accessories and packing materials are given in the last of this parts list.

5-1. CABINET



Ref.No.	Part No.	Description	Remark
1	X-3368-281-1	CABINET (FRONT) ASSY	
*2	3-911-534-01	SPRING (SP), PLUG	
3	3-913-065-01	SCALE, DIAL	
4	3-910-554-01	POINTER	
5	3-910-550-01	KNOB (BAND)	
6	3-910-552-01	INDICATOR (A)	
7	3-382-324-01	BELT (TUN)	
8	3-910-553-01	INDICATOR (B)	
9	3-900-157-01	PULLEY	
10	3-910-551-01	KNOB (POWER)	
11	3-380-910-01	GEAR, MIDWAY	
12	3-910-548-01	CHASSIS	
13	3-893-361-01	STRAP, HAND	
14	3-380-908-01	SHAFT (TUN)	
15	3-386-645-01	SPRING, RING	
16	3-380-909-01	KNOB (TUN)	

Ref.No.	Part No.	Description	Remark
17	3-382-003-01	GEAR (B), TUNING CAPACITOR	
18	3-380-914-01	GEAR (A), TUNING CAPACITOR	
19	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL	
20	3-380-913-01	KNOB (VOL)	
*21	A-3679-565-A	MAIN BOARD, COMPLETE	
22	3-911-535-01	TERMINAL (MINUS), BATTERY	
23	3-893-840-01	PLATE (ANTENNA), CONTACT	
24	3-382-006-01	TERMINAL, BATTERY	
25	3-380-922-01	LID, BATTERY CASE	
26	9-911-815-01	CUSHION (A)	
27	3-910-547-01	CABINET (REAR)	
28	3-364-594-11	SCREW (+B) (3X6), NYLOK	
29	3-380-918-01	STAND	
ANT1	1-501-222-71	ANTENNA, TELESCOPIC (FM)	
D2	8-719-812-41	LED TLR124	
SP901	1-541-517-11	SPEAKER	

SECTION 6
ELECTRICAL PARTS LIST

MAIN

When indicating parts by reference number, please include the board.

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA··· : μA···, uPA··· : μPA···, uPB··· : μPB···,
  uPC··· : μPC···, uPD··· : μPD···
- CAPACITORS
  uF : μF
- COILS
  uH : μH

Ref.No.	Part No.	Description			Remark
*	A-3679-565-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C4	1-163-377-11	CERAMIC CHIP	100PF	5%	50V
C5	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C6	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C7	1-163-114-00	CERAMIC CHIP	75PF	5%	50V
C8	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C9	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C10	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C11	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C12	1-163-088-00	CERAMIC CHIP	5PF		50V
C13	1-163-091-00	CERAMIC CHIP	8PF		50V
C14	1-163-085-00	CERAMIC CHIP	2PF		50V
C15	1-163-088-00	CERAMIC CHIP	5PF		50V
C16	1-163-086-00	CERAMIC CHIP	3PF	0.25PF	50V
C17	1-163-091-00	CERAMIC CHIP	8PF		50V
C18	1-163-086-00	CERAMIC CHIP	3PF	0.25PF	50V
C19	1-163-088-00	CERAMIC CHIP	5PF	0.25PF	50V
C20	1-163-091-00	CERAMIC CHIP	8PF		50V
C21	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C22	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C23	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C24	1-163-367-11	CERAMIC CHIP	39PF	5%	50V
C25	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C26	1-163-100-00	CERAMIC CHIP	20PF	5%	50V
C27	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C28	1-163-100-00	CERAMIC CHIP	20PF	5%	50V
C29	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C30	1-163-063-00	CERAMIC CHIP	0.022uF		50V
C31	1-163-367-11	CERAMIC CHIP	39PF	5%	50V
C32	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C33	1-163-108-00	CERAMIC CHIP	43PF	5%	50V
C34	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C35	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C36	1-126-157-11	ELECT	10uF	20%	16V
C37	1-163-063-00	CERAMIC CHIP	0.022uF		50V
C38	1-163-346-11	CERAMIC CHIP	3PF	0.25PF	50V
C39	1-126-163-11	ELECT	4.7uF	20%	50V

Ref.No.	Part No.	Description			Remark
C40	1-126-157-11	ELECT	10uF	20%	16V
C41	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C42	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C43	1-126-163-11	ELECT	4.7uF	20%	50V
C44	1-126-163-11	ELECT	4.7uF	20%	50V
C45	1-126-157-11	ELECT	10uF	20%	16V
C46	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C47	1-163-074-00	CERAMIC CHIP	0.033uF		50V
C48	1-163-074-00	CERAMIC CHIP	0.033uF		50V
C49	1-164-346-11	CERAMIC CHIP	1uF		16V
C50	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C51	1-126-163-11	ELECT	4.7uF	20%	50V
C52	1-126-177-11	ELECT	100uF	20%	10V
C53	1-163-031-11	CERAMIC CHIP	0.01uF	5%	50V
C54	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C57	1-126-163-11	ELECT	4.7uF	20%	50V
C58	1-164-346-11	CERAMIC CHIP	1uF		16V
C59	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C60	1-124-472-11	ELECT	470uF	20%	10V
C61	1-126-177-11	ELECT	100uF	20%	10V
C62	1-163-031-11	CERAMIC CHIP	0.01uF	5%	50V
C63	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C64	1-126-163-11	ELECT	4.7uF	20%	50V
C65	1-164-346-11	CERAMIC CHIP	1uF		16V
C66	1-124-472-11	ELECT	470uF	20%	10V
C67	1-126-157-11	ELECT	10uF	20%	16V
C68	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C69	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C70	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C71	1-163-063-00	CERAMIC CHIP	0.022uF		50V
C72	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C75	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C76	1-163-152-00	CERAMIC CHIP	5PF	0.25PF	50V
C80	1-163-033-00	CERAMIC CHIP	0.022uF		50V
		< FILTER >			
CF1	1-577-317-11	FILTER, CERAMIC (455KHz)			
CF2	1-760-238-71	FILTER, CERAMIC			
CF3	1-760-238-71	FILTER, CERAMIC			

MAIN

Ref.No.	Part No.	Description			Remark
		< VARIABLE CAPACITOR >			
CT1 CV1	1-151-636-11	CAP. VAR (TUNING)			
		< TRIMMER >			
CT2	1-141-411-11	CAP. ADJ 20PF			
CT3	1-141-411-11	CAP. ADJ 20PF			
		< DIODE >			
D1	8-719-809-76	DIODE 1SS226			
D2	8-719-812-41	LED TLR124 (TUNE)			
D3	8-719-921-22	DIODE 1SS277			
		< IC >			
IC1	8-752-062-48	IC CXA1238M-T6			
IC2	8-752-064-80	IC CXA1522M			
		< JACK >			
J1	1-566-891-11	JACK (Ω)			
J2	1-764-799-11	JACK, EXTERNAL POWER (DC IN 3V)			
		< JUMPER RESISTOR >			
JR1	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR2	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR4	1-216-295-00	METAL CHIP	0	5%	1/10W
JR5	1-216-295-00	METAL CHIP	0	5%	1/10W
JR6	1-216-295-00	METAL CHIP	0	5%	1/10W
JR7	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR8	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR9	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR10	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR11	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR12	1-216-295-00	METAL CHIP	0	5%	1/10W
JR14	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L1	1-501-683-11	ANTENNA, FERRITE-ROD (LW/MW)			
L2	1-501-683-11	ANTENNA, FERRITE-ROD (LW/MW)			
L4	1-406-028-00	COIL, OSC (MW)			
L5	1-406-028-00	COIL, OSC (MW)			
L6	1-428-768-11	COIL, AIR-CORE			
L7	1-406-042-00	COIL, FM OSC			
L8	1-408-398-00	INDUCTOR	1.2uH		
L9	1-408-594-21	INDUCTOR	1.8uH		
L10	1-408-402-00	INDUCTOR	2.7uH		
L11	1-408-402-00	INDUCTOR	3.3uH		

Ref.No.	Part No.	Description			Remark
L12	1-408-405-00	INDUCTOR	4.7uH		
L13	1-408-407-00	INDUCTOR	6.8uH		
L14	1-408-410-00	INDUCTOR	12uH		
L15	1-408-412-00	INDUCTOR	18uH		
L16	1-408-414-00	INDUCTOR	27uH		
L17	1-409-516-11	COIL (OSC)			
L18	1-409-515-11	COIL (OSC)			
L19	1-409-514-11	COIL (OSC)			
L20	1-409-513-11	COIL (OSC)			
L21	1-409-512-11	COIL (OSC)			
L22	1-409-511-11	COIL (OSC)			
L23	1-409-510-11	COIL (OSC)			
L24	1-409-509-11	COIL (OSC)			
L25	1-409-508-11	COIL (OSC)			
L26	1-414-142-61	INDUCTOR	1uH		
L27	1-414-167-11	INDUCTOR	1MMH		
L28	1-414-167-11	INDUCTOR	1MMH		
L29	1-428-769-11	COIL, AIR-CORE			
		< TRANSISTOR >			
Q1	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q2	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q3	8-729-216-22	TRANSISTOR	2SA1162-G		
Q4	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q5	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q6	8-729-920-74	TRANSISTOR	2SC2412K-QR		
		< RESISTOR >			
R1	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R2	1-216-115-00	METAL CHIP	560K	5%	1/10W
R3	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R4	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5	1-216-105-00	METAL CHIP	220K	5%	1/10W
R6	1-216-105-00	METAL CHIP	220K	5%	1/10W
R7	1-216-025-00	METAL GLAZE	100	5%	1/10W
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W
R9	1-216-105-00	METAL CHIP	220K	5%	1/10W
R10	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R12	1-216-049-00	METAL CHIP	1K	5%	1/10W
R13	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R14	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R15	1-216-105-00	METAL CHIP	220K	5%	1/10W
R16	1-247-883-00	CARBON	150K	5%	1/4W
R17	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R20	1-216-105-00	METAL CHIP	220K	5%	1/10W
R21	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R22	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R23	1-216-198-91	METAL GLAZE	1K	5%	1.8W
R24	1-216-198-91	METAL GLAZE	1K	5%	1.8W

Ref.No.	Part No.	Description			Remark
R25	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R26	1-216-174-00	METAL GLAZE	100	5%	1/8W
R27	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R28	1-216-174-00	METAL GLAZE	100	5%	1/8W
R29	1-216-001-00	METAL CHIP	10	5%	1/10W
R30	1-216-093-00	METAL CHIP	68K	5%	1/10W
R31	1-216-093-00	METAL CHIP	68K	5%	1/10W
R32	1-216-093-00	METAL CHIP	68K	5%	1/10W
R33	1-216-033-00	METAL CHIP	220	5%	1/10W
R34	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R35	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R36	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R37	1-216-037-00	METAL GLAZE	330	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-228-995-00	RES. ADJ. METAL 22K			
RV2	1-238-555-11	RES. VAR. CARBON 50K (VOLUME)			
		< SWITCH >			
S1	1-692-846-11	SWITCH, SLIDE (BAND)			
S2	1-571-850-81	SWITCH, SLIDE (POWER)			
		< TRANSFORMER >			
T1	1-416-021-11	COIL (AM IFT) (455KHz)			

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MISCELLANEOUS

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ANT1	1-501-222-71	ANTENNA, TELESCOPIC (FM)
SP901	1-544-517-11	SPEAKER

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ACCESSORIES & PACKING MATERIALS

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	3-758-269-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN PORTUGUESE) (EXCEPT Saudi Arabia)
	3-758-269-71	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, ARABIC, ITALIAN, PORTUGUESE) (Saudi Arabia)
*	3-912-863-01	GUIDE, SHOOT WAVE
*	3-913-013-01	INDIVIDUAL CARTON

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HARDWARE LIST

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#1	7-685-105-19	TPG -P 2X8, TYPE 2 N-S
#2	7-685-138-19	SCREW -P 2.6X16 TYPE 2 N-S
#3	7-685-534-19	SCREW -BTP 2.6X8 TYPE 2 N-S